

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-4. Canceled.

5. (Currently Amended) A wireless communication device comprising:
~~at least one a system processor and at least one communication processor;~~
a communication processor;
a communication module, in communication with the system processor and
the communication processor to facilitate communication between ~~each the~~ system
processor and the communication processor; and
a shared memory associated with the communication module;
wherein the each system processor and communication processor each
include having an associated operating system, the operating system being
configured to receive variables from a single thread in a single threaded operating
environment, port the received variables via a porting layer for use in a multiple
threaded environment performing code generated from a software model, the
~~software model developed using a single threaded modeling tool, a porting layer~~

~~ports code generated by the single threaded modeling tool to a multiple threaded environment, the porting layer wherein the porting in the received variables into the multiple threaded operating environment is performed by reference and not as variables so such that each of an independent thread can access variables by reference without stopping on another independent thread's variable.~~

6. (Currently Amended) The wireless communication device of claim 5, further comprising a single threaded modeling tool configured to generate code from a software model, wherein the single threaded modeling tool produces variables as global variables and not using the global variables in operation of a plurality of threads in the multiple threaded operating environment.

7. (original) The wireless communication device of claim 5 wherein the porting layer comprises a root process table having process description block entries, each process in the process description block entry having static variables.

8. (Currently Amended) The wireless communication device of claim 6 5, further comprising wherein a an SDL modeling language used in the software development is SDL and wherein the single threaded software modeling tool is Telelogic Tau C miero TELELOGIC TAU C MICRO with light integration.

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9. (original) The wireless communication device of claim 5 wherein the wireless communication device is a wireless transmit/receive unit.